

9.8 LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KDB 987594 D02, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only RU26 tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

Band	Tones	*20MHz (RBW/VBW)	*40MHz (RBW/VBW)	*80MHz (RBW/VBW)	*160MHz (RBW/VBW)
UNII- 5/6/7/8	Partial RU	MRU106+26T: 300kHz/910kHz 52T: 300kHz/910kHz 106T: 300kHz/910kHz	52T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz 242T: 510kHz/1.6MHz	484T: 820kHz/2.7MHz MRU484+242T: 1MHz/3MHz	52T: 510kHz/1.6MHz (UNII- 5/6/7) 484T: 820kHz/2.7MHz MRU484+242T: 1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

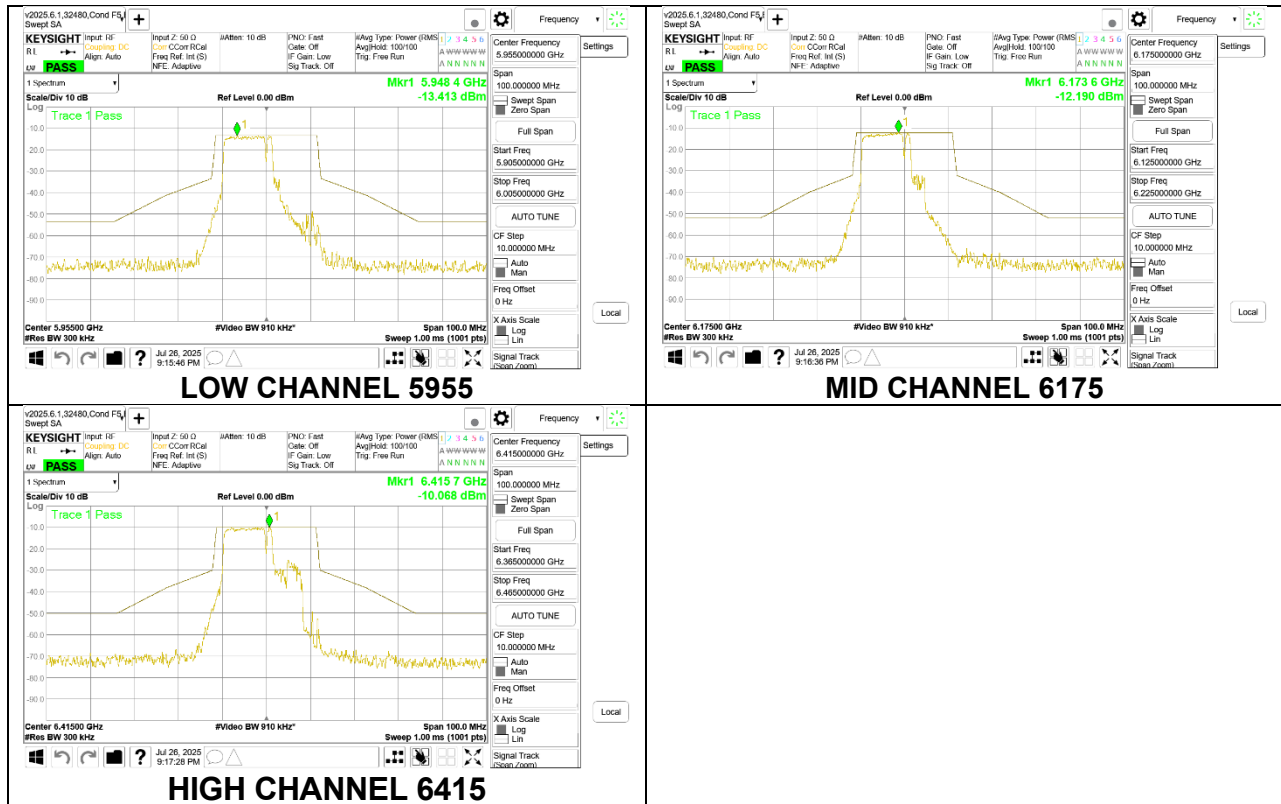
*Different RBW/VBW due to different partial tones.

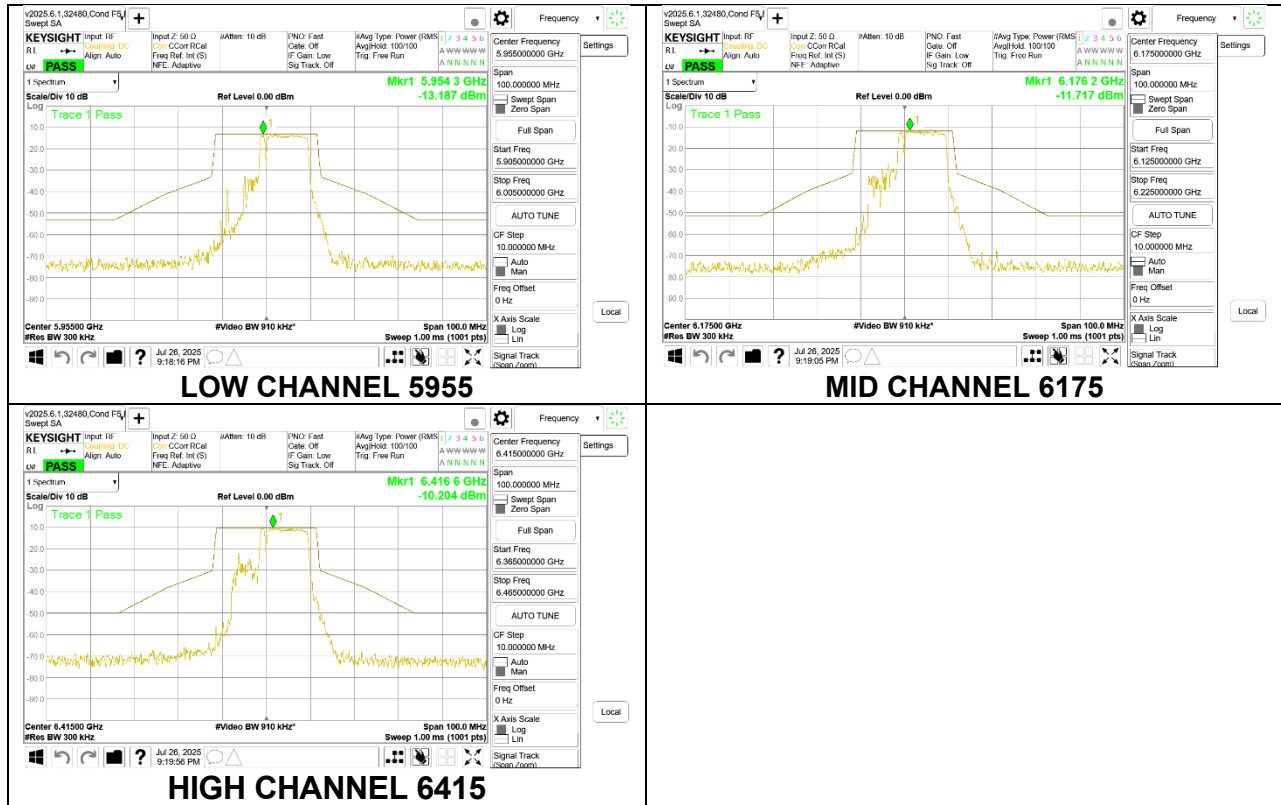
RESULTS

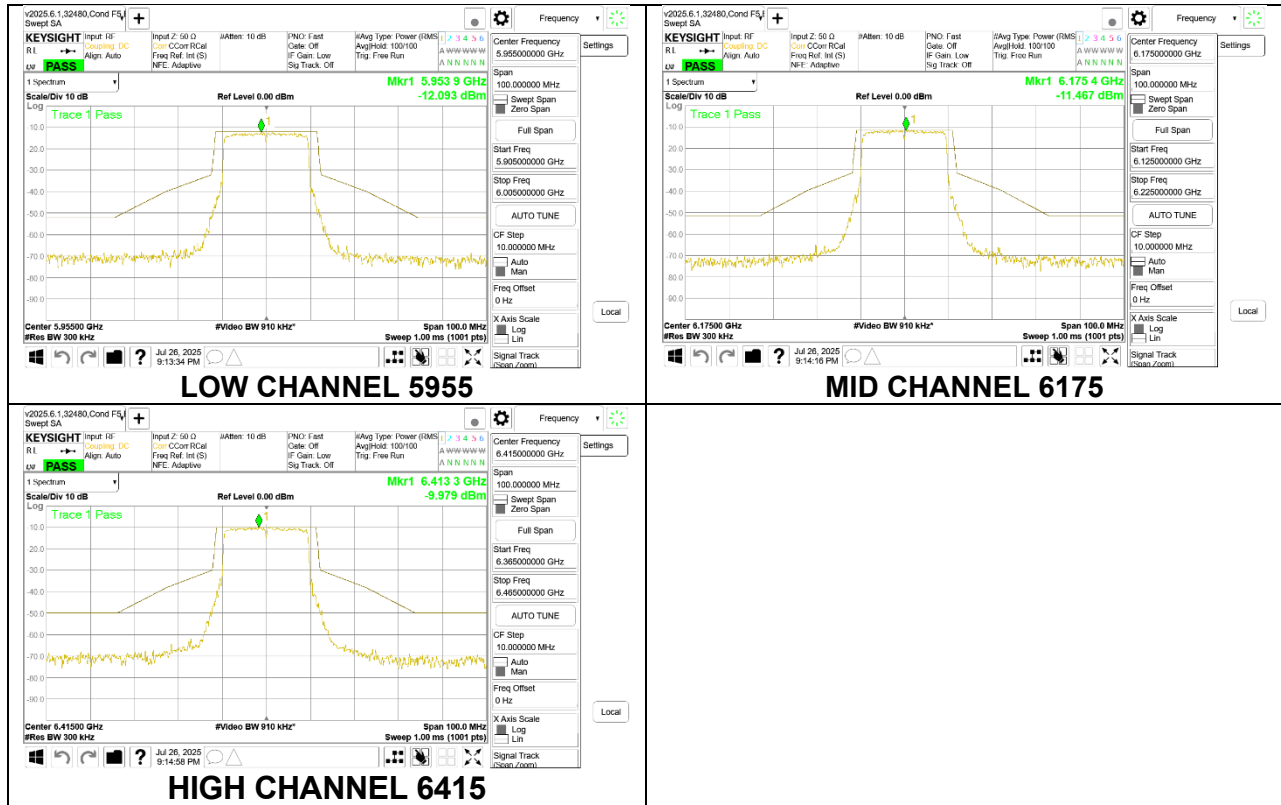
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low, mid and high channels in each band. Additionally, the mid channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

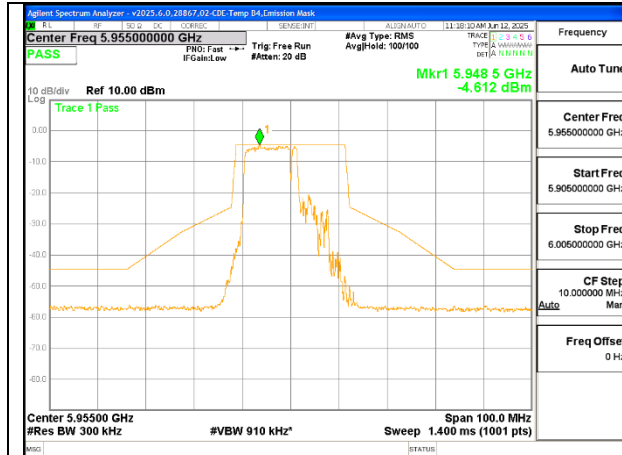
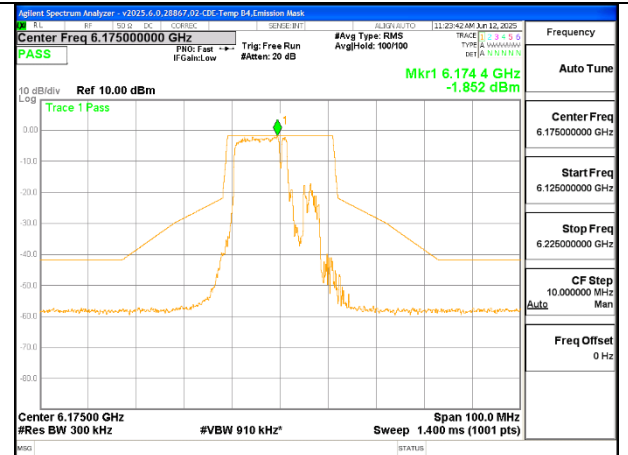
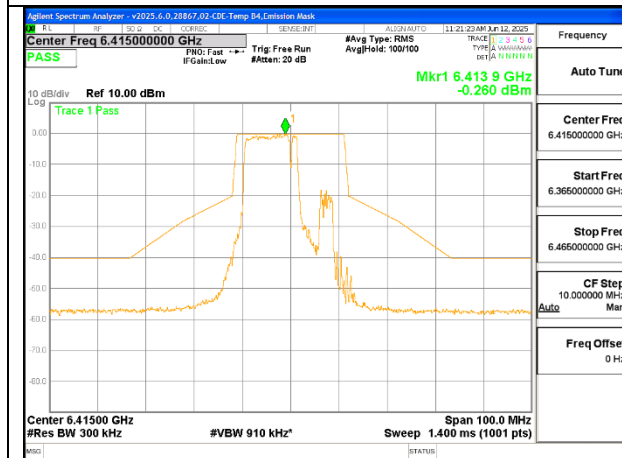
9.8.1 802.11be EHT20 MODE IN THE UNII-5 BAND

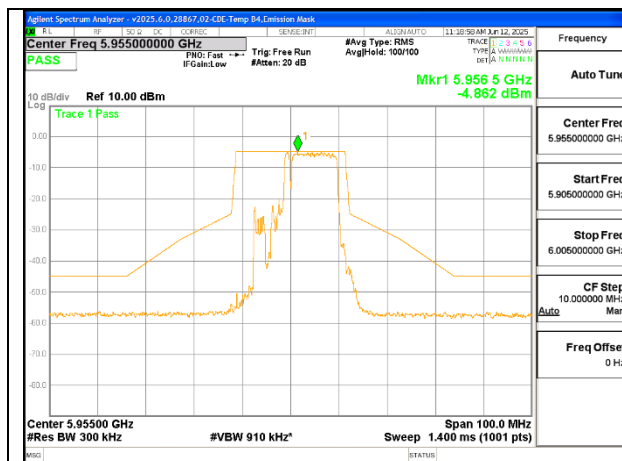
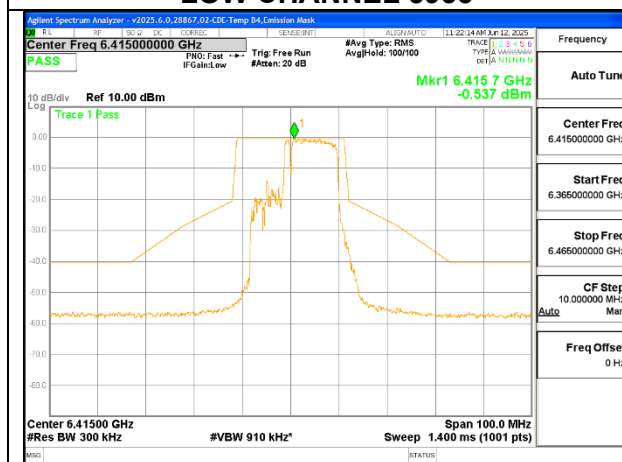
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82

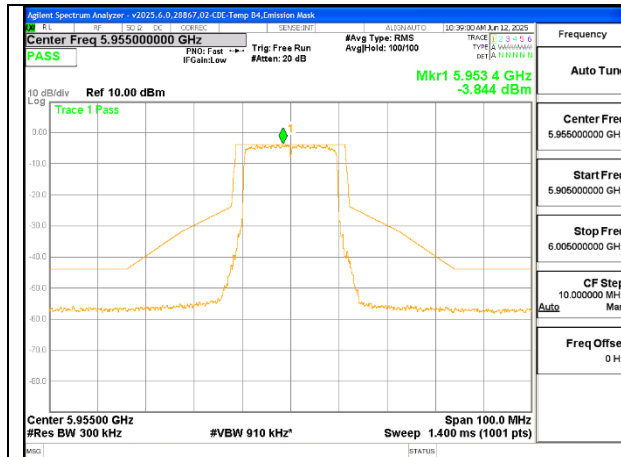
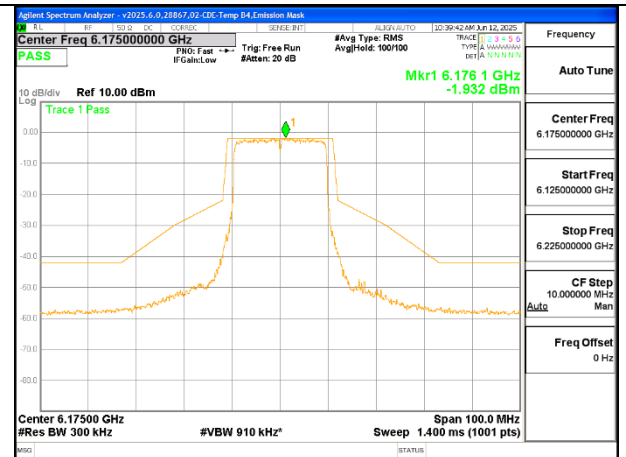
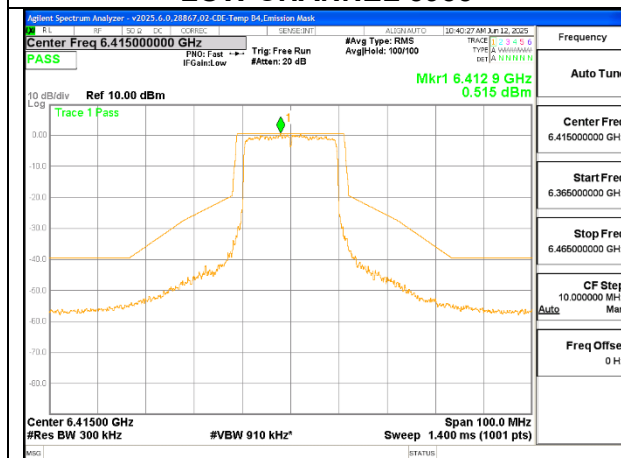


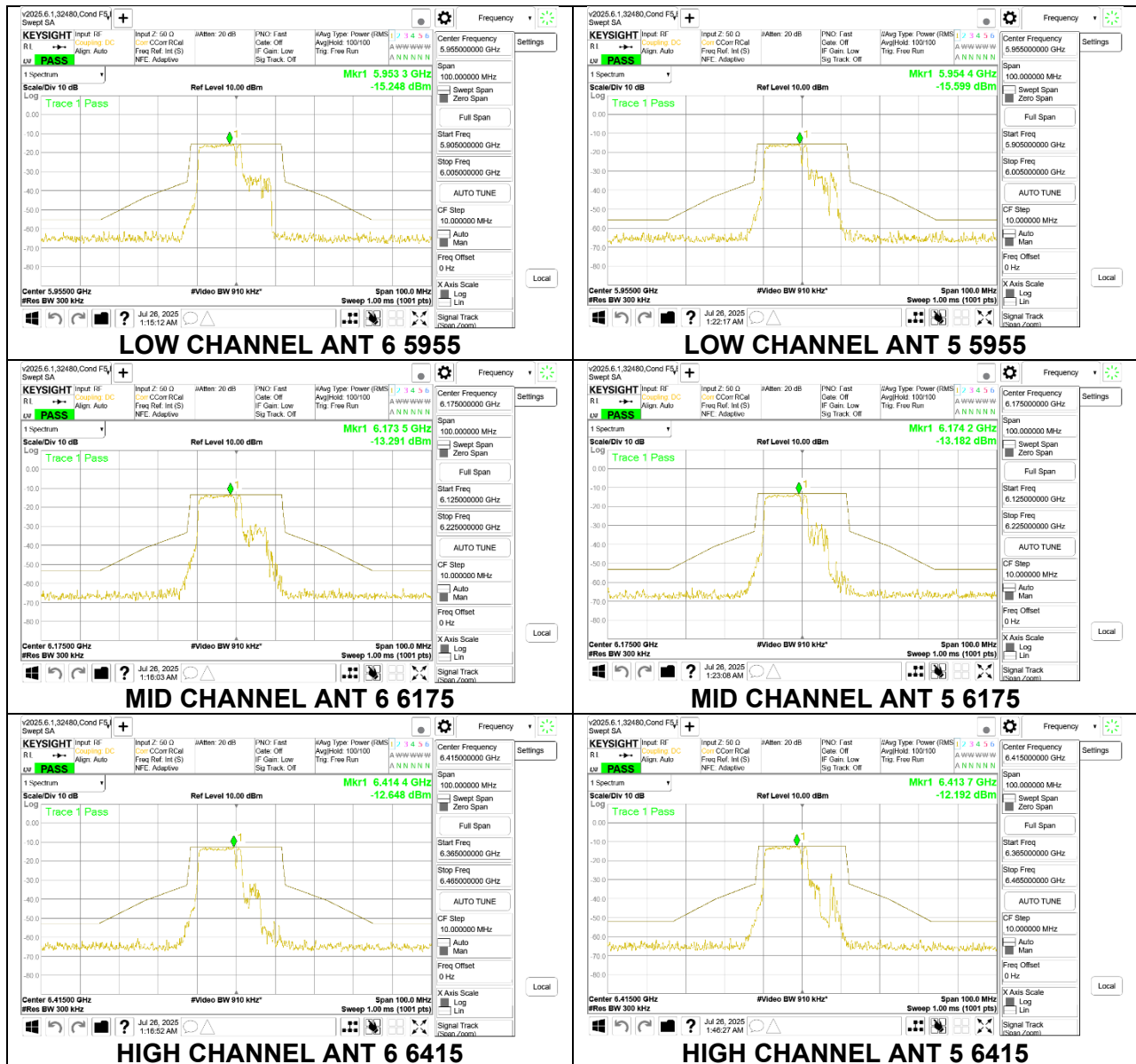
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83

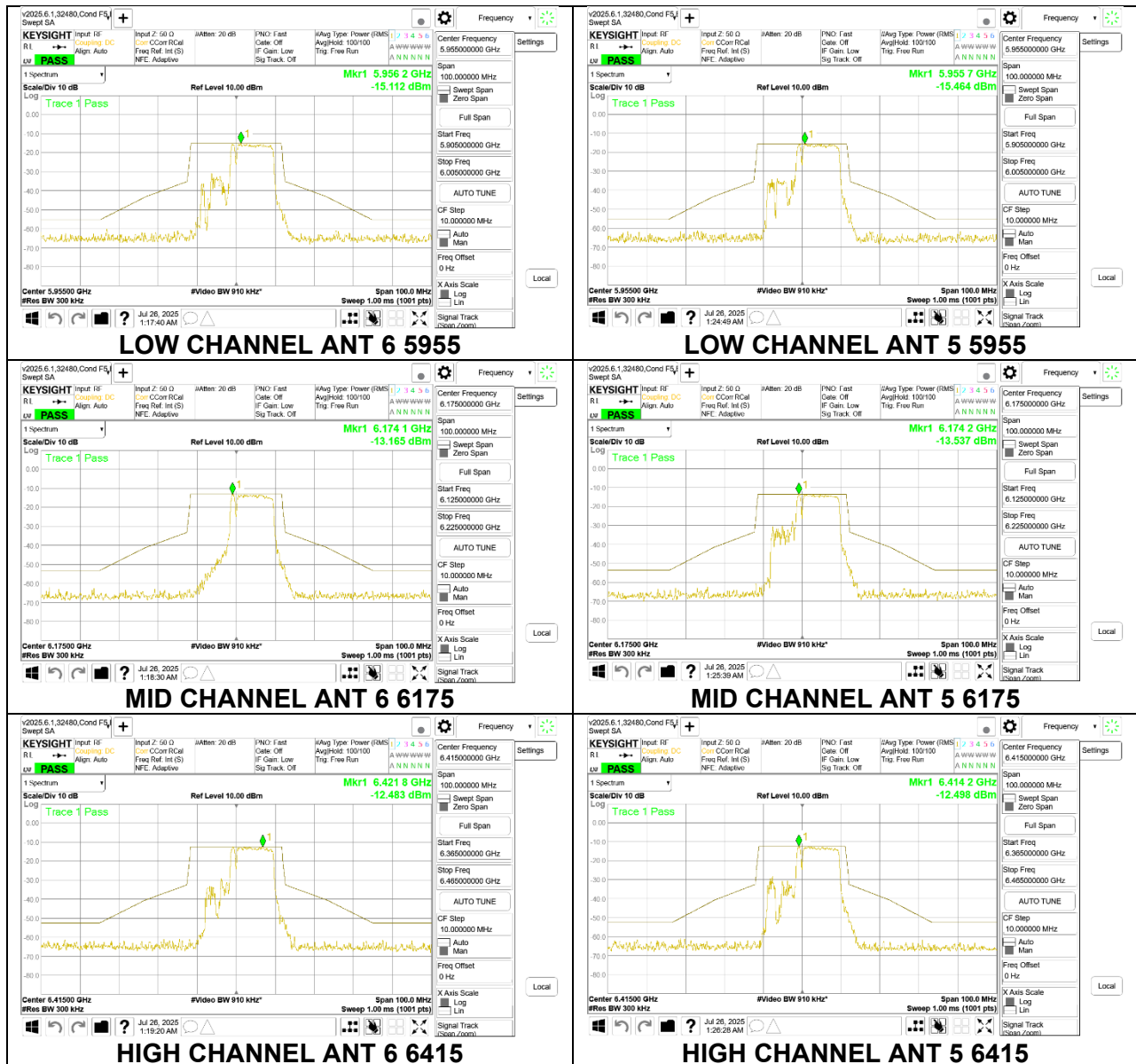
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

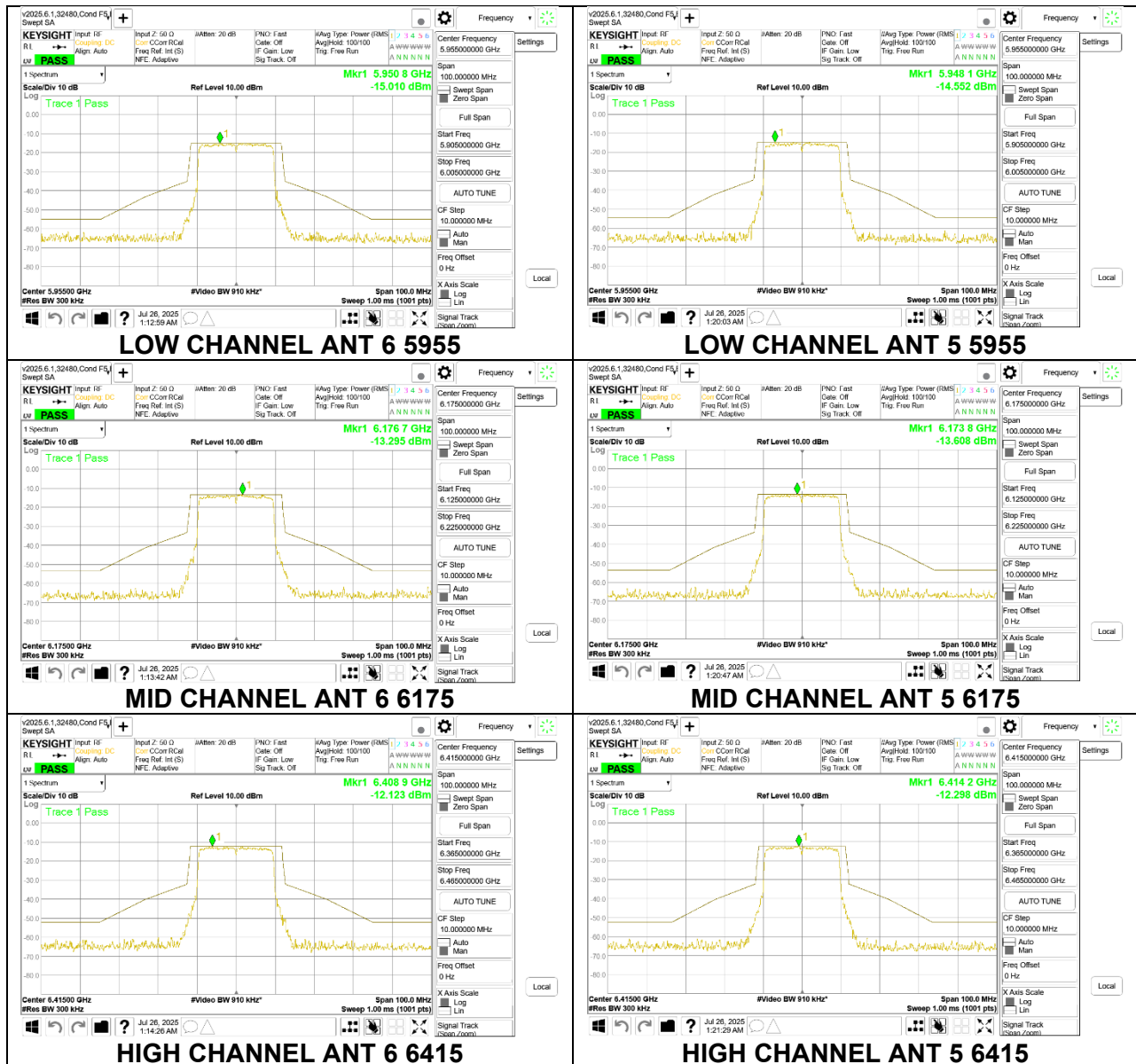
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

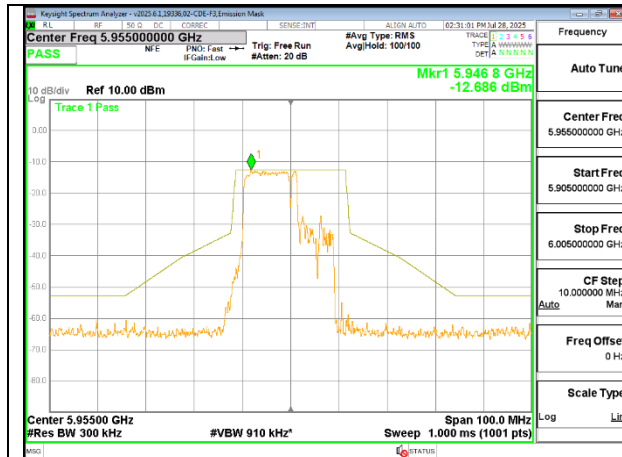
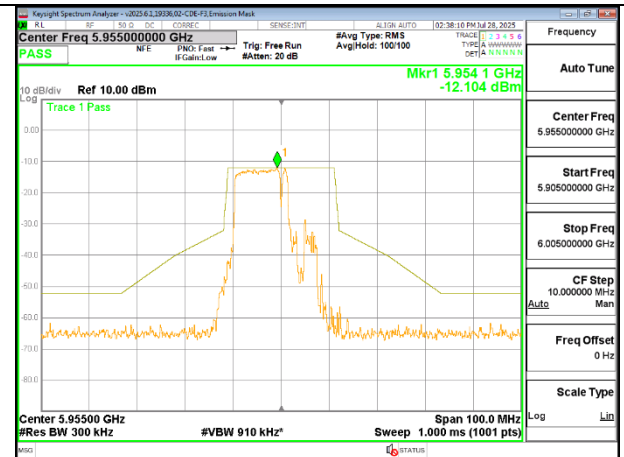
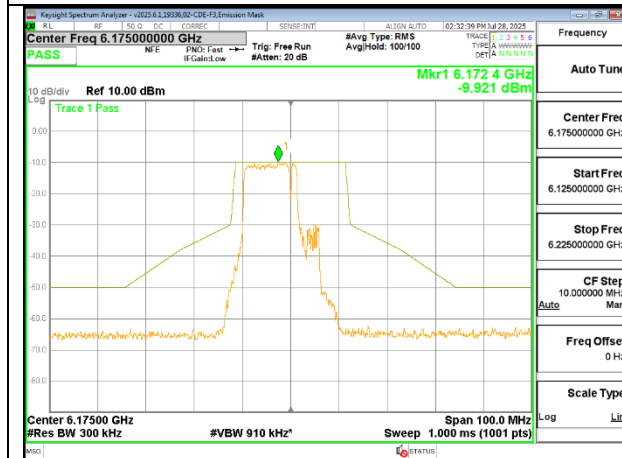
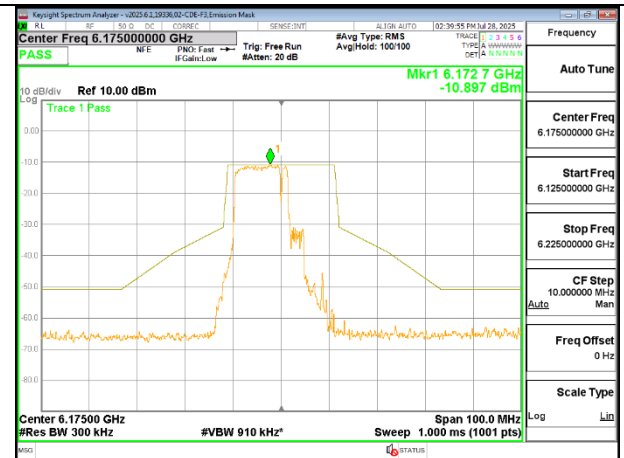
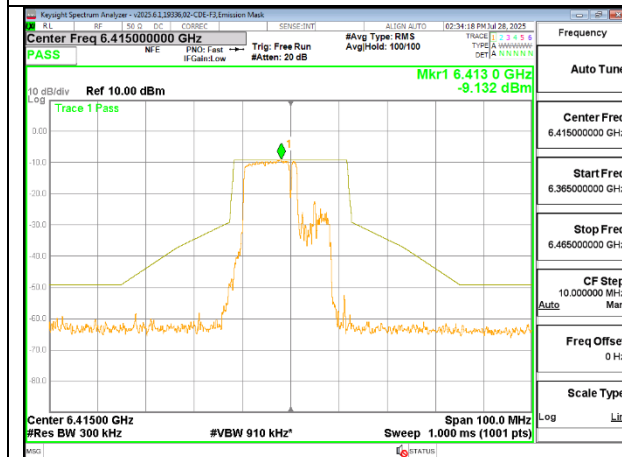
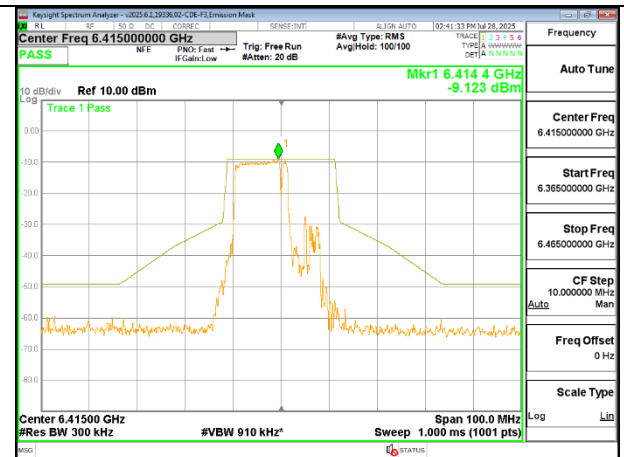
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

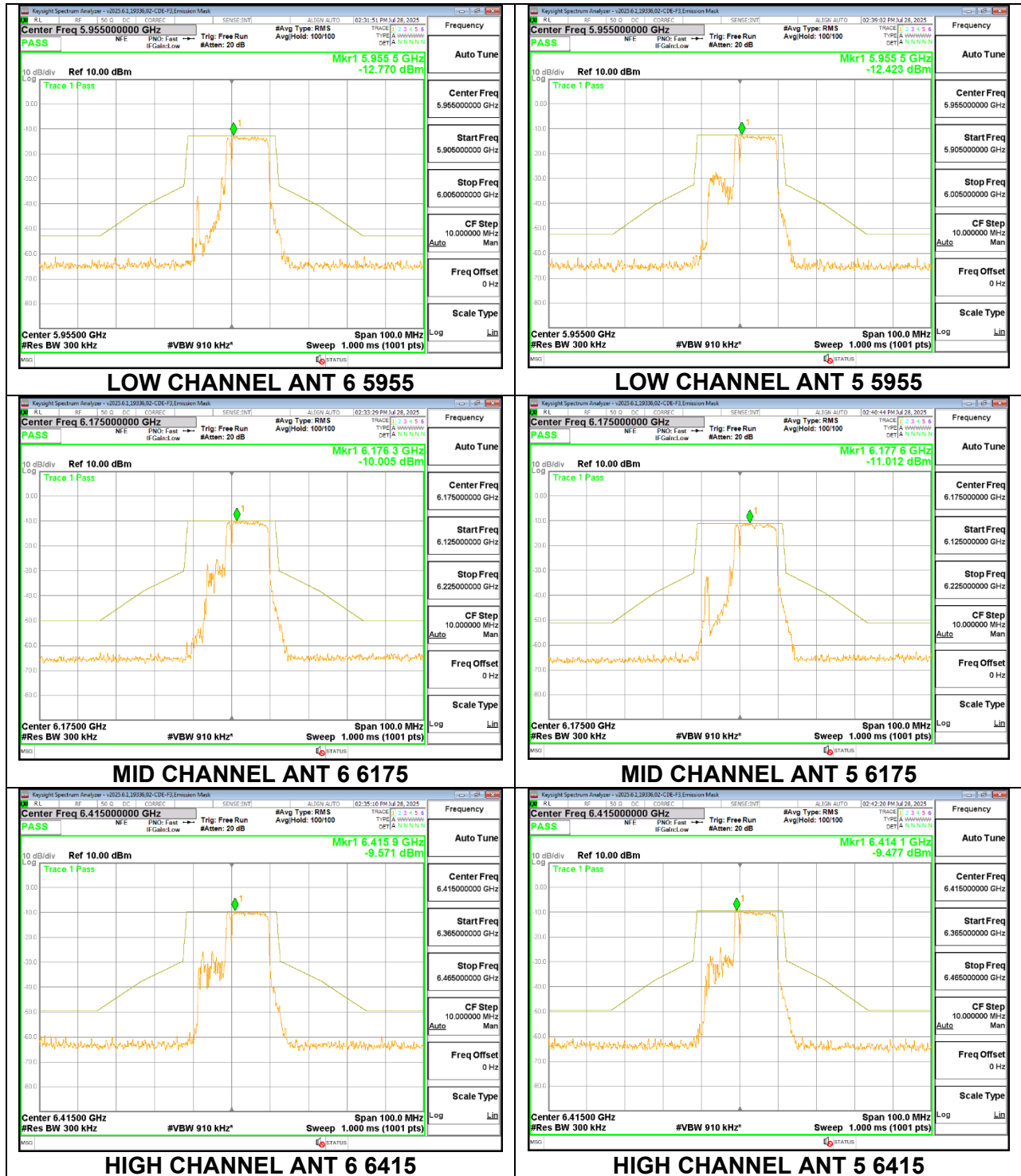
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

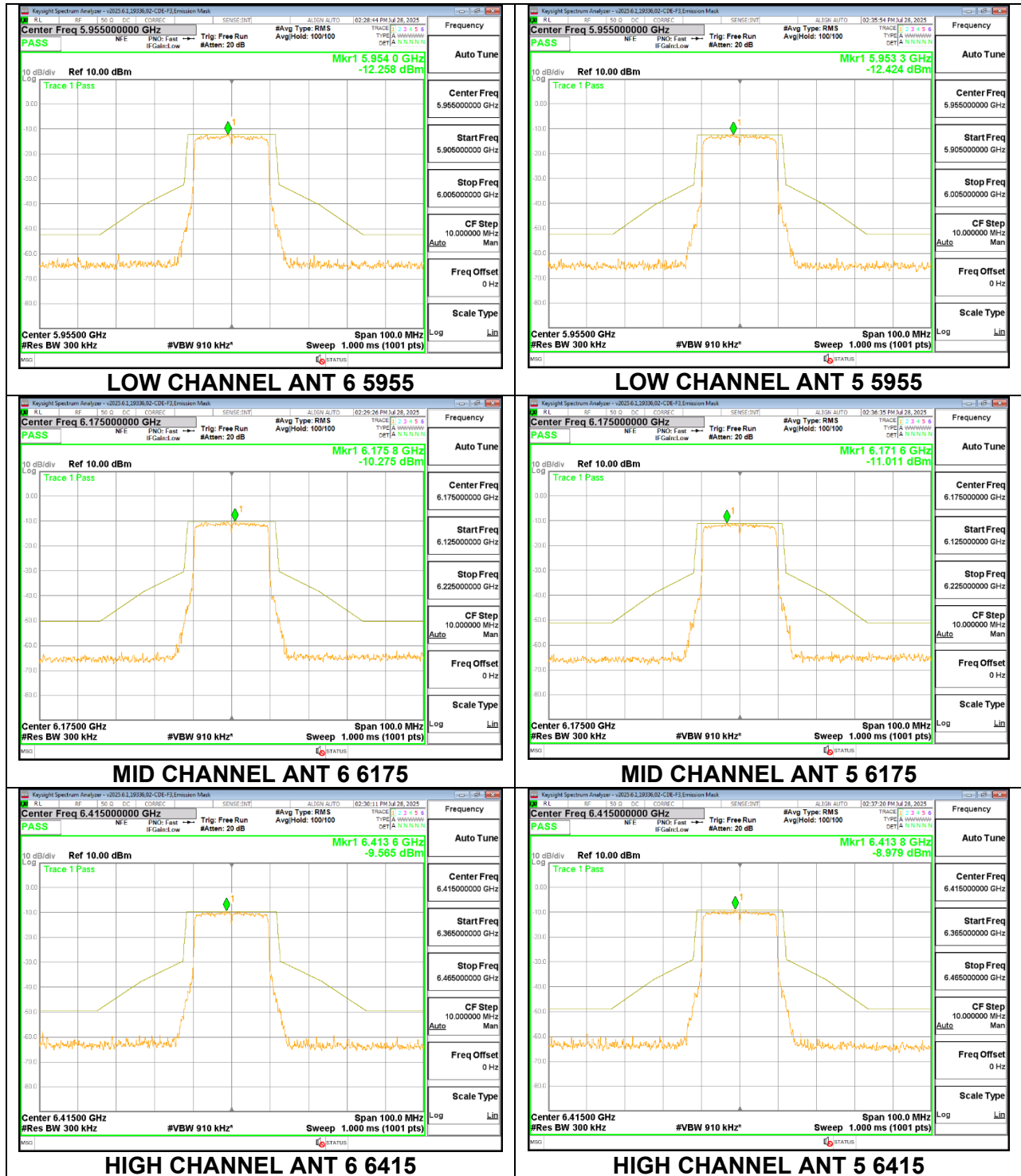
2TX CDD MODE (FCC + IC) – MRU106+26-Tones, RU Index 82

2TX CDD MODE (FCC + IC) – MRU106+26-Tones, RU Index 83

2TX CDD MODE (FCC + IC) – SU MODE

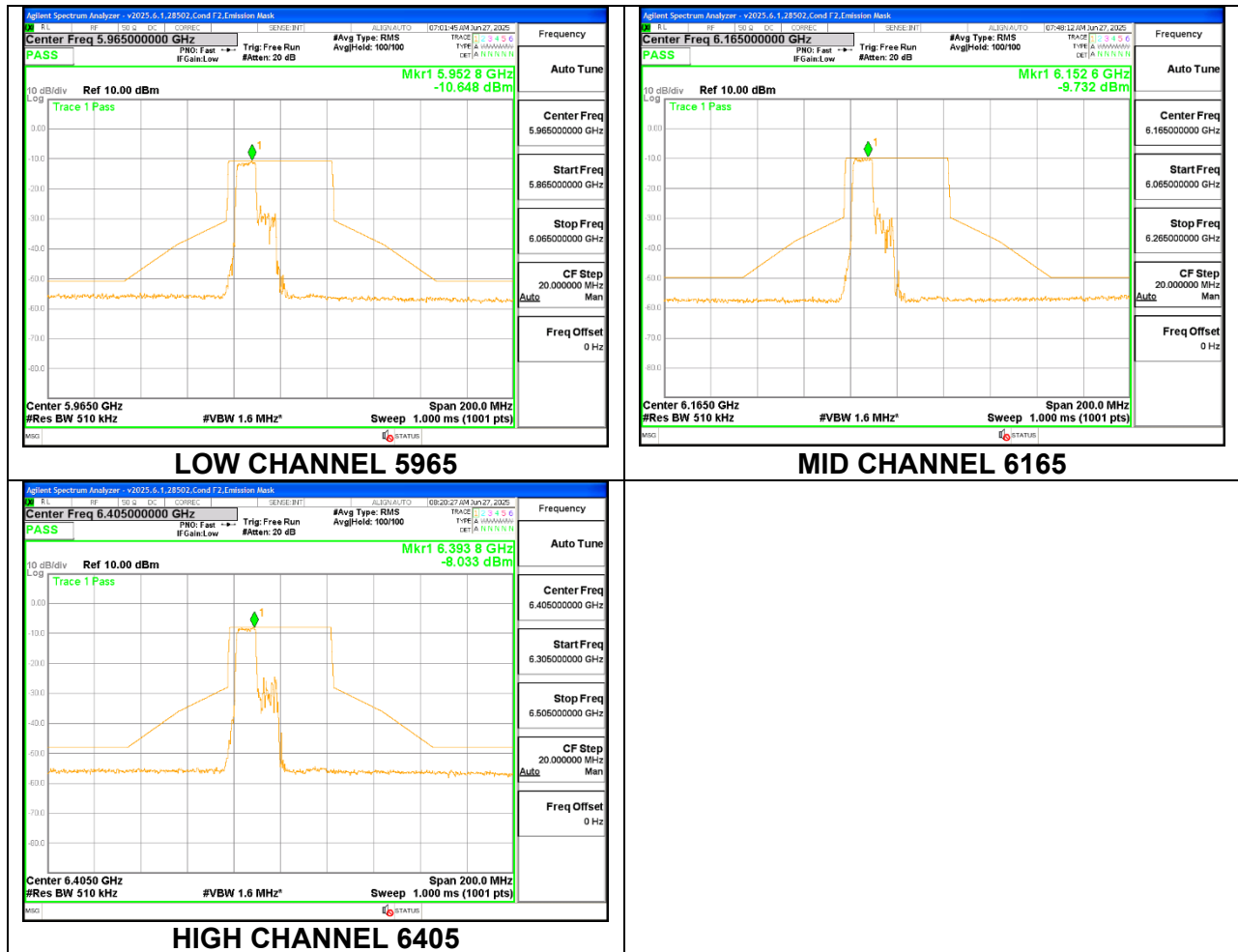
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 82**LOW CHANNEL ANT 6 5955****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

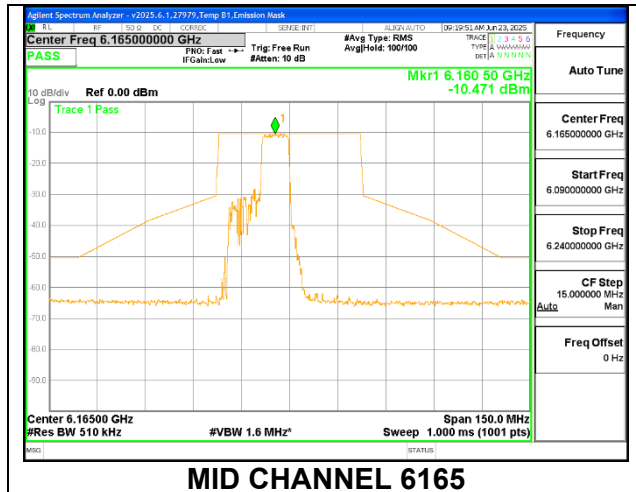
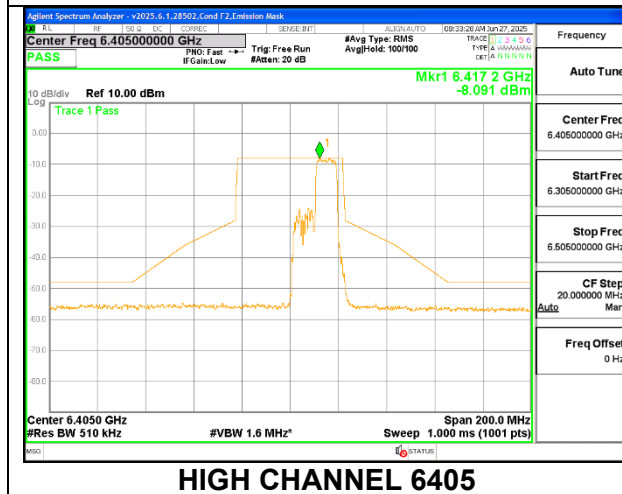
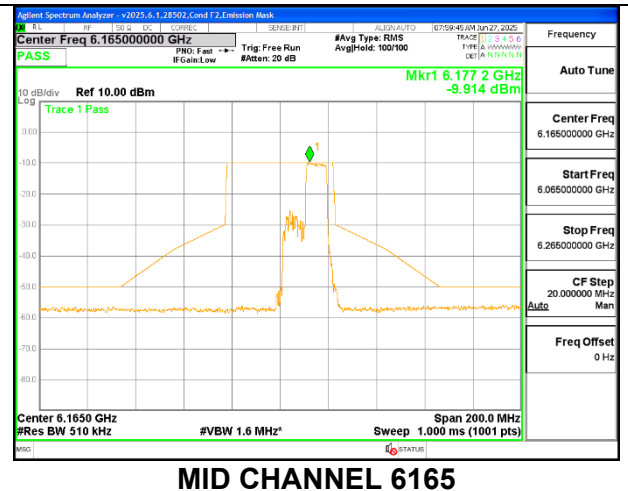
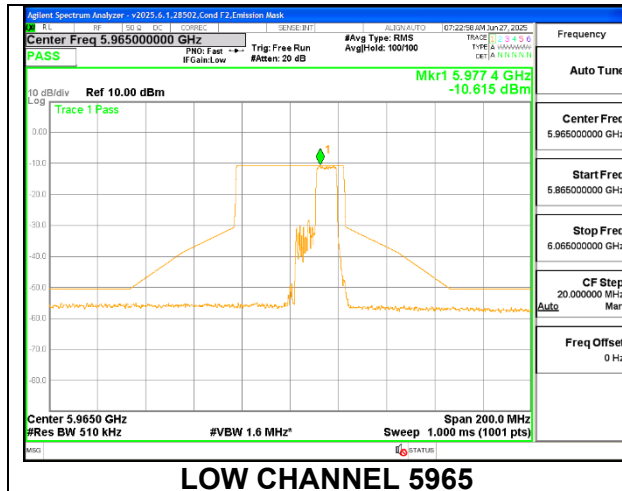
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 83

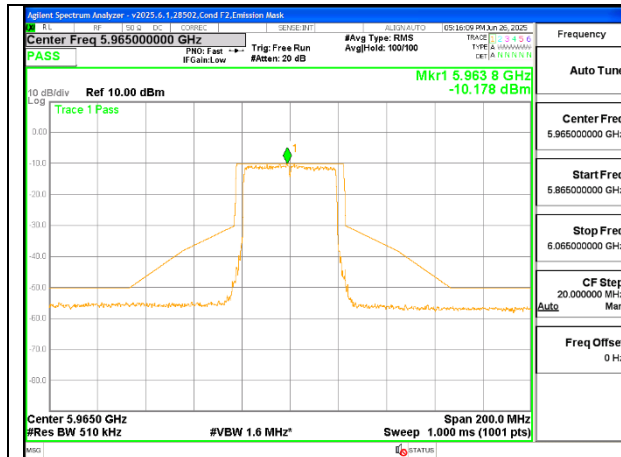
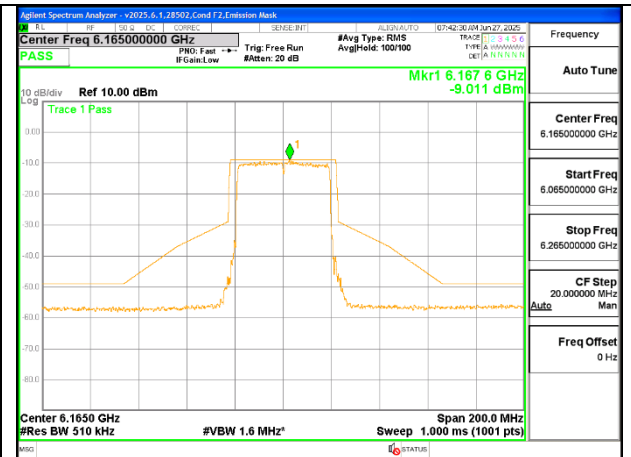
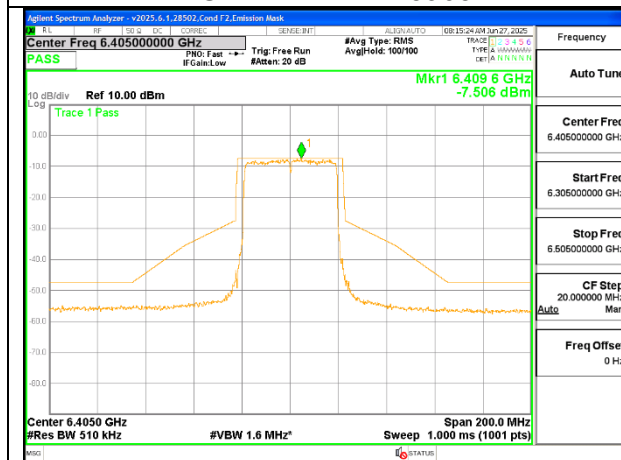
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode

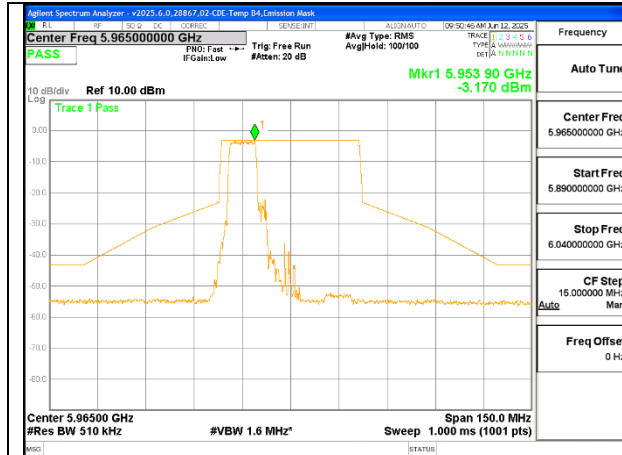
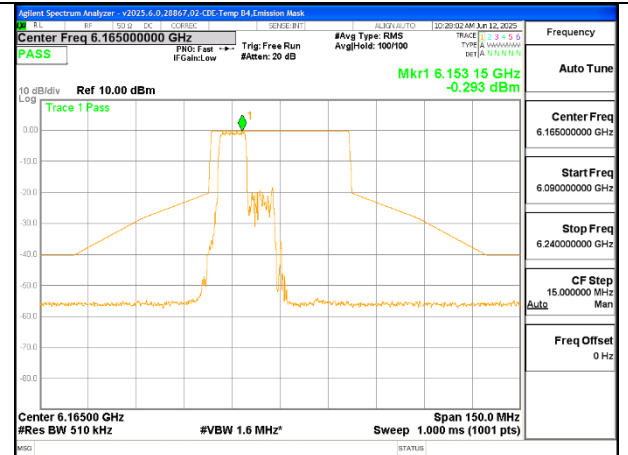
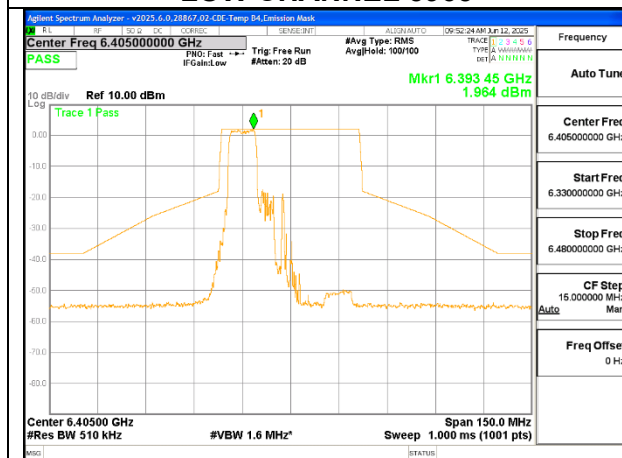
9.8.2 802.11be EHT40 MODE IN THE UNII-5 BAND

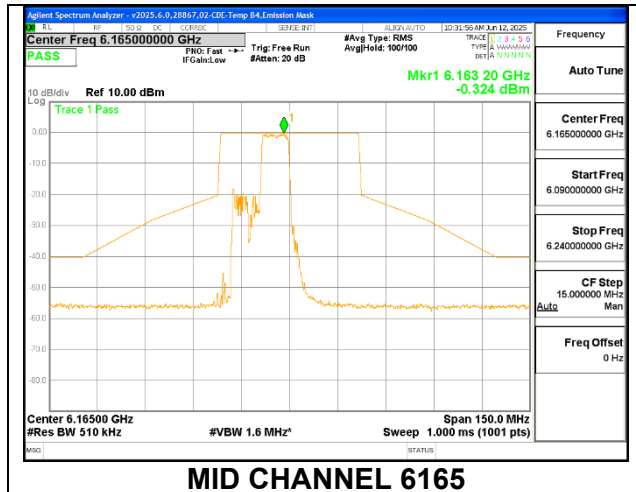
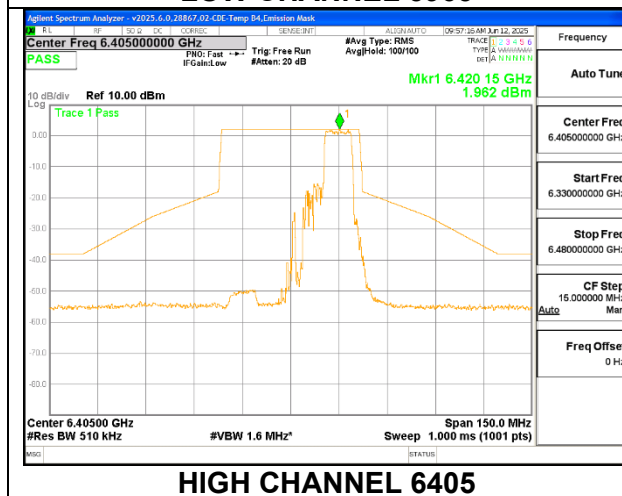
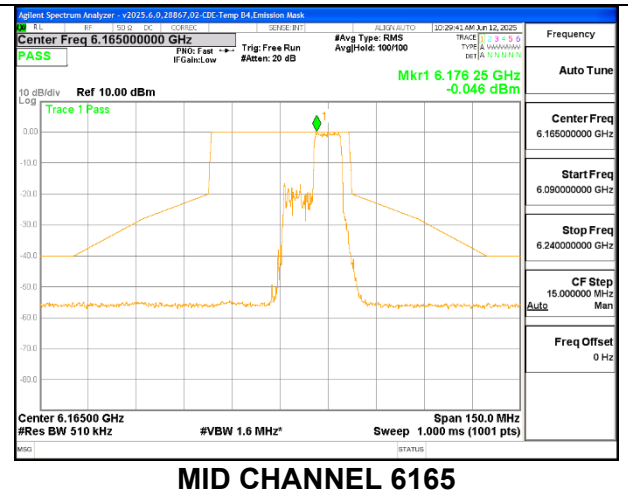
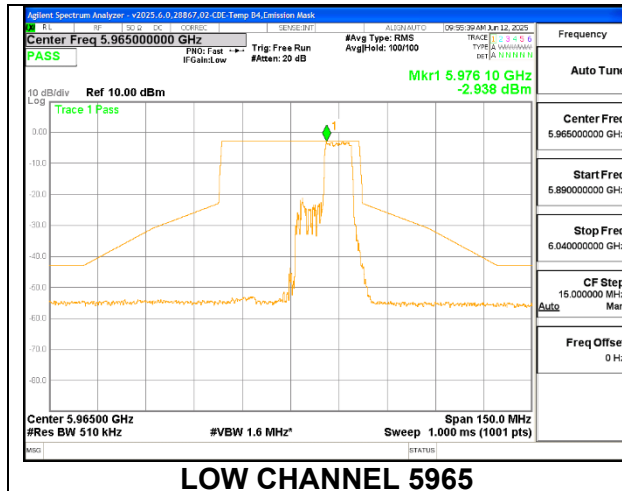
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53

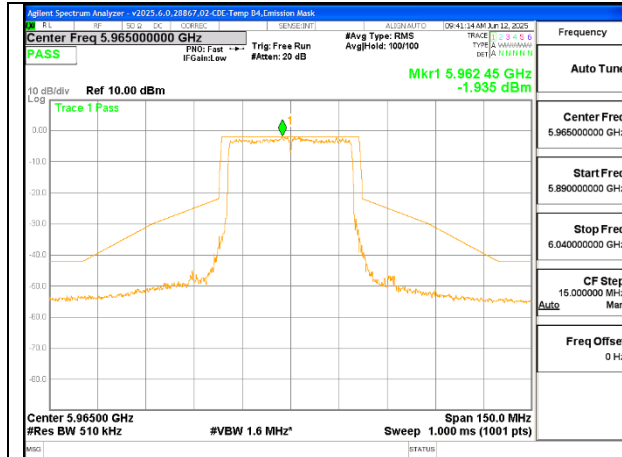
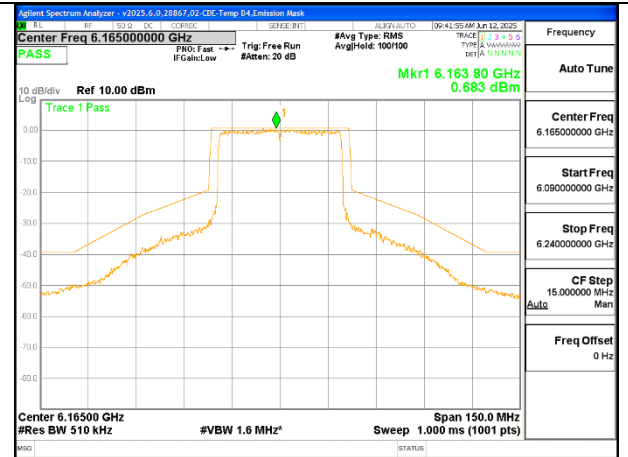
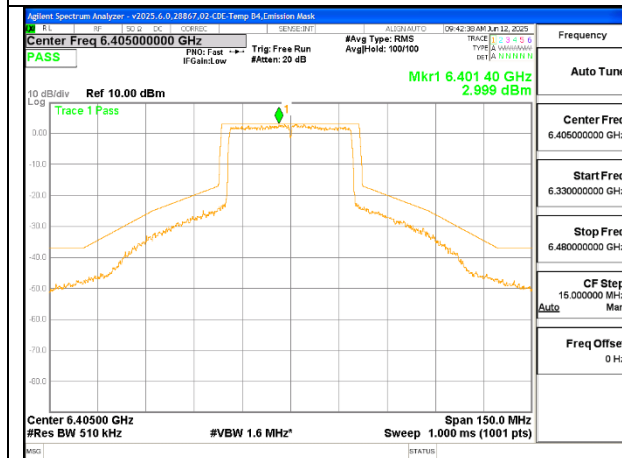


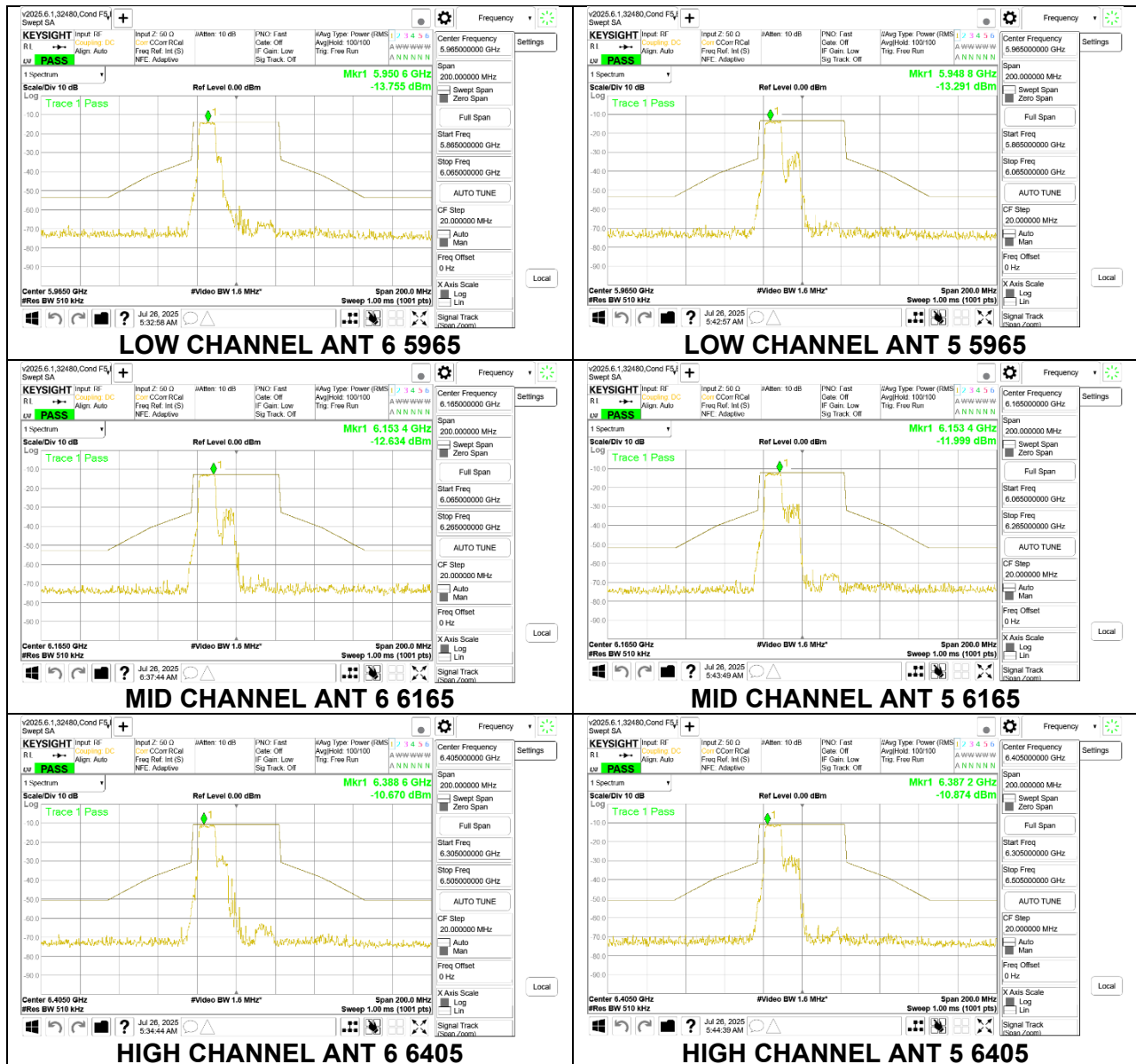
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54**1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56**

1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54**1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56**

1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 53

2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 54